

Docket No.: 05986/100K504-US1
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Marco PAPPAGALLO

Application No.: 10/624,942

Confirmation No.: 7691

Filed: July 21, 2003

Art Unit: 1617

For: TREATMENT OF SPINAL MECHANICAL
PAIN

Examiner: Jennifer M. KIM

SUPPLEMENTAL SUBMISSION

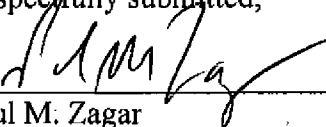
MS AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

A Declaration of Dr. Marco Pappagallo Under 37 C.F.R. 1.132 ("the Declaration") was filed with the U.S. Patent Office on June 5, 2007. A copy of Dr. Pappagallo's curriculum vitae should have been included with the submission as Exhibit A to the Declaration. *See* Declaration, paragraph 8. The curriculum vitae was inadvertently omitted. Accordingly, filed herewith is a copy of Dr. Marco Pappagallo's curriculum vitae to be included as Exhibit A to the Declaration.

Dated: June 6, 2007

Respectfully submitted,

By 
Paul M. Zagar

Registration No.: 52,392
DARBY & DARBY P.C.
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(212) 527-7701 (Fax)
Attorneys/Agents For Applicant

CURRICULUM VITAE
MARCO PAPPAGALLO, M.D.

ACADEMIC APPOINTMENTS

| | |
|-----------------------|---|
| July 1993 – June 1995 | Clinical Instructor Departments of Neurology, Neurosurgery, Anesthesiology The Johns Hopkins University School of Medicine Baltimore, Maryland |
| July 1995 - June 1999 | Assistant Professor Departments of Neurology, Neurosurgery, and Anesthesiology The Johns Hopkins University School of Medicine Baltimore, Maryland |
| July 1999 - June 2003 | Associate Professor Department of Neurology NYU School of Medicine, New York, New York |
| July 2003 – June 2006 | Associate Professor Departments of Neurology and Anesthesiology Albert Einstein College of Medicine Bronx, New York |
| July 2006 – Present | Professor, Department of Anesthesiology and Pain Medicine Mount Sinai School of Medicine New York, New York |

HOSPITAL APPOINTMENTS

| | |
|-----------------------|--|
| July 1993 - June 1999 | Attending Physician, Dept of Neurology The Johns Hopkins Medical Institutions Baltimore, Maryland |
| July 1999 – June 2003 | Attending Physician, Dept. of Neurology Hospital for Joint Diseases Mount Sinai/NYU Health New York, New York |
| July 2003 – Present | Attending Physician, Dept. of Pain Medicine & Palliative Care Beth Israel Medical Center New York, New York |
| July 2006 – Present | Associate Attending, Anesthesiology Department of Anesthesiology Mount Sinai Hospital New York, New York |

EDUCATION

| | |
|---------------------|--|
| Nov 1976 - Nov 1982 | Medical Doctor Degree "Summa cum Laude" School of Medicine, University of Rome Rome, Italy |
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POSTDOCTORAL TRAINING

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|-----------------------|---|
| July 1986 – June 1987 | Internship, Internal Medicine Cabrini Medical Center, New York Medical College New York, New York |
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| July 1987 – June 1990 | Residency, Neurology State University of New York at Stony Brook Stony Brook, New York |
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|-----------------------|---|
| July 1990 – June 1993 | Clinical & Research Fellowship in Pain Medicine The Johns Hopkins Pain Treatment Center Baltimore, Maryland |
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CERTIFICATION

| | |
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| Nov 1992 | ABPN Neurology Board Certification # 36631 |
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| Sept 2000 | ABMS Pain Management Board Certification #29 Recognized by the American Boards of Anesthesiology, Psychiatry / Neurology, and Physical Medicine/ Rehabilitation |
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LICENSURE

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| October 20, 1989 | New York State Physician License # 180493 |
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HONORS / AWARDS

| | |
|------|--|
| 1998 | Selected Abstract, Imaging Neurogenic Inflammation in Patients with Migraine Headaches, Scientific Topic Highlights Plenary Session, AAN 51st Meeting, Toronto, Canada |
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| 2000 | Recipient, Merck unrestricted educational grant |
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| 2000 | Recipient, Wyeth-Ayerst unrestricted educational grant |
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| 2000 | Recipient, Ortho-McNeal unrestricted educational grant |
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| 2000 | Consumers' Guide to Top Doctors®, Center for the Study of |
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HONORS / AWARDS (cont'd.)

| | |
|-------------|--|
| 2002 - 2003 | Marquis Who's Who in Medicine and Healthcare®, 4th Edition |
| 2003 | Award winner; American Academy of Pain Medicine - AAPM. Abstract #502 "A pilot trial of pamidronate for chronic mechanical spinal pain," selected by the Annual Meeting Scientific Poster Session Committee, New Orleans, Louisiana |
| 2005 | America's Top Physicians®, Consumers' Research Council of America, Washington, DC |
| 2005 | Physician of the Year Award—Annual Ceremony Bikur Cholim Mazkereth Frima D'Munkakacs, Brooklyn, New York |
| 2005 | Marquis Who's Who in America®, 60 th Diamond Edition. |
| 2006 - 2007 | Marquis Who's Who in Medicine and Healthcare® (6 th Edition) |
| 2006 - 2007 | Best Doctors in America® |
| 2006 - 2007 | Marquis Who's Who in America®, 61 st Edition |
| 2006 | American Top Physicians®, Consumers' Research Council of America, Washington, DC |

PATENTS:

| | |
|------|--|
| 1999 | U.S. Patent No. 5,962,532 issued on 10/5/99, licensed Aug 2001; Therapeutic Method with Capsaicin and Capsaicin Analogues - Inventors: Campbell JN, Pappagallo M , and Meyer R. |
| 2001 | U.S. Patent No. 6,248,788 issued on 6/19/01, Licensed Aug 2001; Therapeutic Method with Capsaicin and Capsaicin Analogues – Inventors: Robbins W, Staats P, and Pappagallo M . |
| 2003 | U.S. Patent Application No: 10/435,504. Method for therapeutic treatment of carpal tunnel syndrome- Inventors: Pappagallo M ; Breuer, B |
| 2003 | U.S. Patent Application No: 10/624,942. Method for therapeutic treatment of back pain – Inventor: Pappagallo M . |
| 2005 | U.S. Patent Application No: 10/496,451. Management of |

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PROFESSIONAL APPOINTMENTS

| | |
|----------------|---|
| 1994 | APS Scientific Program Committee and Specialty Subcommittees |
| 1994 - 1999 | The Johns Hopkins Hospital Pharmacy and Therapeutics Committee |
| 1994 - 1999 | Advisory Board, Back Pain Association of America |
| 1995 - 1999 | Chairperson, AAN International Pain Section |
| 1996 - 1999 | Expert Analyst, The Pain Medicine Journal Club Journal |
| 1997 - 1998 | Editorial Member, <i>The Journal of Acute Pain and Symptom Management</i> |
| 1998 | Consultant, Consumer Reports on Health |
| 1998 | Consultant, Union Institute Graduate College |
| 1998 | Selected Author, Dannemiller Memorial Educational Foundation |
| 1998 | Vice Chairperson, American Academy of Neurology, Pain Section |
| 1999 - present | Ad Hoc reviewer for: <i>The Lancet</i> , <i>Clinical Journal of Pain</i> , <i>Journal of Pain and Symptom Management</i> , <i>Journal of Pharmaceutical Sciences</i> , NIDCR / NIH, <i>Analgesia</i> , <i>Journal of Pain</i> , <i>Pain</i> , <i>Anesthesia and Analgesia</i> , <i>Mayo Clinic Proceedings</i> , <i>The Medical Letter</i> , <i>Pain Medicine</i> |
| 2000 - 2002 | Chairperson, American Academy of Neurology, Pain Section |
| 2000 - 2003 | Member, HJD, Pharmacy and Therapeutics Committee |
| 2000 - present | Editorial Board Member, <i>Current Pain and Headache Reports</i> |
| 2000 - 2006 | Member, Pain Practice, Editorial Board |
| 2001 | Examiner, ABPN oral exams, Philadelphia, PA, |
| 2001 | Visiting Professor, University of Rome, “La Sapienza”, Rome, Italy; |
| 2001 - present | Editorial Board, Member, <i>American Journal of Hospice and Palliative Care</i> |
| 2001 – 2002 | Member, NIH Pain and Palliative Care Advisory Board |
| 2002 | Member, ACGME Fellowship in Pain Management Curriculum Committee |

- 2002 – 2006 Editorial Board Member, Practical Pain Management
- 2003 Program Committee Member, American Academy of Pain Medicine -
AAPM 2004 Annual Meeting Program

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PROFESSIONAL APPOINTMENTS (cont'd.)

- 2004 Program Committee Member, American Academy of Pain Medicine -
AAPM 2005 Annual Meeting
- 2005 Member, American Pain Society's Clinical Practice Guidelines Panel on
Low Back Pain
- 2005-present Member, Glaxo-SK-Adolor Scientific Advisory Board on Opioid-Induced
Constipation and Bowel Dysfunction, New York, NY
- 2005 Ad Hoc Committee on Appointments and Promotions, Albert Einstein
College of Medicine
- 2001 – 2006 Item Writer, Question Writer, Author, ABA-ABMS Pain Management
Board Examination
- 2002 – present Editorial Board, Member, *Pain Medicine*
Editorial Board, Member, *Journal of Terminal Oncology*
Editorial Board, Member, *The Journal of Neuropathic Pain and Symptom
Palliation*
- 2006 Member, Purdue Pharma, Scientific Advisory Board on Peripheral Opioid
Analgesics, Greenwich, CT
- 2006 Member, DOV Pharmaceuticals, Scientific Advisory Board,
Atlanta, GA
- 2006 Opioid Based Treatment of Opioid Dependency Educational Course and
Certification - The New York City Department of Health and Mental
Hygiene, Mt Sinai School of Medicine, New York, NY
- 2006 Founder, Pain Medicine Cooperative: Italy-USA non-profit educational
Foundation
- 2006 Member, Albert Einstein College of Medicine Committee on
Appointments/Promotions to Associate Professor
- 2007 Member, Research and Foreign Relations
Catalan Agency for Health Technology Assessment and Research (CAHTA)
- 2007 Member, Advisory Scientific Board "Role of Methadone in the
Pharmacologic Treatment of Patients with Refractory Pain" Advanced
Studies in Medicine (ASiM), New York, NY march 3-4, 2007

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ADMINISTRATIVE LEADERSHIP APPOINTMENTS

| | |
|---------------|---|
| 1995 - 1999 | Director, Division of Pain Medicine Department of Neurology The Johns Hopkins Medical Institutions Baltimore, Maryland |
| 1999 - 2003 | Director, Comprehensive Pain Treatment Center Hospital for Joint Diseases, Mt. Sinai/NYU Health New York, New York |
| 2003– 2006 | Director, Division of Chronic Pain Department of Pain Medicine and Palliative Care Beth Israel Medical Center, NYC, NY |
| 2006- present | Director, Pain Medicine Research & Development Department of Anesthesiology Mount Sinai School of Medicine, NYC, NY |

TRAINING RECORD:

| <u>NAME</u> | <u>LEVEL OF TRAINEE</u> | <u>ROLE IN TRAINING DATES OF TRAINING</u> | <u>TRAINING VENUE</u> | <u>TRAINEES' CURRENT STATUS</u> |
|---------------------|-----------------------------------|---|-----------------------------|---------------------------------|
| P. D'Amato | Clinical Fellow, Pain Medicine | Preceptor 2006-07 | Mount Sinai, NY | Fellow, in progress |
| S. Rao | | Preceptor 2006-07 | Mount Sinai, NY | Fellow, in progress |
| D. Vo | | Preceptor 2006-07 | Mount Sinai, NY | Fellow, in progress |
| S. Pellai | | Preceptor 2006-07 | Mount Sinai, NY | Fellow, in progress |
| A. Hammer | | Preceptor 2006-07 | Mount Sinai, NY | Fellow, in progress |
| T. Lacy | | Preceptor 2006-07 | Mount Sinai, NY | Fellow, in progress |
| Craig Chang | | Preceptor, 2005-06 | Beth Israel Med Ctr, NY, NY | Private Practice |
| Samant Virk | | Preceptor, 2005-06 | Beth Israel Med Ctr, NY, NY | Private Practice |
| Beverly Whittenberg | | Preceptor, 2005-06 | Beth Israel Med Ctr, NY, NY | Private Practice |
| Nityananda Podder | | Preceptor, 2005-06 | Beth Israel Med Ctr, NY, NY | Private Practice |
| Meghana Karande | | Preceptor, 2004-05 | Beth Israel Med Ctr, NY, NY | Private Practice, NY |
| Ryuichi Sekine | | Preceptor, 2004-05 | Beth Israel Med Ctr, NY, NY | Private Practice, NY |
| Sallu Jabati | | Preceptor, 2004-05 | Beth Israel Med Ctr, NY, NY | Cleveland Clin, OH |
| Katherine Leonard | | Preceptor, 2004-05 | Beth Israel Med Ctr, NY, NY | Private Practice, NY |
| Janice Pavis | | Preceptor, 2004-05 | Beth Israel Med Ctr, NY, NY | Private Practice, NY |
| Nilufer Guleyupoglu | | Preceptor, 2004-05 | Beth Israel Med Ctr, NY, NY | Beth Israel Med, NY |
| Thomas Skorupski | | Preceptor, 2003-04 | Beth Israel Med Ctr, NY, NY | Private Practice, NJ |
| Ysmac Yap | | Preceptor, 2003-04 | Beth Israel Med Ctr, NY, NY | Private Practice, CA |

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GRANT AND CONTRACT SUPPORT

| <u>Source, Project title & Number</u> | <u>Role</u> | <u>Dates</u> | <u>Costs</u> | <u>Supplemental Info</u> |
|---|----------------------------------|--------------|------------------|--|
| National Institutes of Health, PO1 NS 32386-01 | <u>Co-PI in project 4</u> | 1994 – 1999 | \$220,000/yr | Co-PI, 20% time / effort (Dr SN Raja, PI), project 4 of the Program Project; A randomized, double blind, placebo-controlled, crossover clinical trial to determine the efficacy of tricyclics (nortriptyline, desipramine) and oral opioids (morphine, methadone) in the treatment of post-herpetic neuralgia |
| Ortho-McNeal | <u>PI</u> | 1997 – 1999 | \$45,000 | <u>PI</u> and Investigator - Dr. Pappagallo - initiated grant: A pilot study of topiramate in the treatment of postherpetic neuralgia. JH RPN #97-08-18-04 |
| Blaustein Foundation | <u>PI</u> | 1998 - 1999 | \$25,000 | Investigator - Dr. Pappagallo - initiated grant: High concentration topical capsaicin for chronic intractable neuropathic pain and hyperalgesia (IND #43,939) JH - RPN #96-12-19-01 |
| Glaxo | <u>PI</u> | 1998 - 1999 | \$65,000 | Investigator - Dr. Pappagallo - initiated grant ;Imaging neurogenic inflammation in migraine patients; JH RPN #97-03-28-01; |
| National Institutes of Health, PO1 HD33990 | <u>Co-PI</u> | 1997 – 1999 | \$ 200,000 / yr. | <u>Co-PI</u> , 10%; (with Dr SN Raja, PI) project 2 of the program project; Pain management in persons with physical disability: a randomized, double blind, placebo-controlled, crossover clinical trial to determine the efficacy of mexiletine and morphine in the treatment of post-amputation pain and phantom pain. |

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| Pfizer | <u>PI</u> | 1998 - 1999 | \$60,000 | Phase II double blind, placebo-controlled, parallel 4-week evaluation of the efficacy and safety of multiple doses of CJ-13, 974 (opioid kappa agonist) in subjects with moderate to severe chronic low back pain. Multi-center study. JH RPN # 98-07-14-03 |
| National Institutes of Health, RPN # 00-CC-0086 | <u>Consultant</u> | 2000 - 2001 | | NIH-intramural study: Dynamic contrast enhanced MR imaging of the meninges during a nitroglycerin-provoked migraine headache. (PI: Dr Bruce Wasserman) |
| Pfizer | <u>PI</u> | 2002- 2003 | \$88,000 | Investigator - Dr Pappagallo - initiated grant; Does Treatment Of Elderly Patients With Donepezil Lower The Risk Of Postoperative Confusion And Delirium? |
| Elan Pharmaceuticals | <u>PI</u> | 2002 - 2003 | \$103,000 | Investigator - Dr Pappagallo - initiated grant; The Effect of Botulinum B Toxin on Neuropathic Pain from Median Nerve Entrapment Neuropathy; a Pilot Study in Patients with Carpal Tunnel Syndrome. |
| Glaxo-SK | <u>PI</u> | 2003 - 2005 | \$179,193 | Investigator - Dr Pappagallo - initiated grant.; A Randomized, Double Blind, Placebo-Controlled, Crossover Pilot Trial Of Lamotrigine For Central Pain Due To Multiple Sclerosis: A Model For The Role Of Lamotrigine In The Treatment Of Central Pain. |
| Endo Pharmaceuticals | <u>Co-PI</u> | 2003 - 2005 | \$57,000 | Investigator initiated grant. Pain Medicine Specialists, Their Number, Location, and Training. |
| Roche Pharmaceuticals | <u>Co-PI</u> | 2005 - 2006 | \$253,500 | Investigator - Dr Pappagallo – initiated grant; An open label Pilot Trial of IV Ibandronate for Complex Regional Pain Syndrome. |
| National Institutes of Health, RO1-NS044845 | <u>PI</u> | 2003- 2007 | \$1.7M | 25%; 8/1/03-7/31/07; Investigator - Dr Pappagallo – initiated grant: A pilot trial of intravenous pamidronate for chronic low back pain. GCO#: 06-0782 |
| Axiom Worldwide | <u>PI</u> | 2007-2008 | Contract Pending | 10%; Safety and clinical efficacy of Axiom DRX 9000 axial decompression system in the treatment of low back pain; multicenter study; for IRB submission |
| Endo Pharmaceuticals | <u>PI</u> | 2007-2009 | Contract Pending | 10%; Investigator - Dr Pappagallo – initiated grant; Feasibility study of opioid rotation and rapid IV PCA oxymorphone titration in ambulatory setting; single center study; for IRB submission |

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TEACHING ACTIVITIES

| Teaching Activity/Topic | Level | Role | Number of Learners | Number of hours per week/month/year | Years Taught |
|--|--|---|---------------------------|--|---------------------|
| The Essentials of Pain Management: Principles and Practice: A Two Day Course; Sponsored by the American Pain Society Annual Meeting, Baltimore, MD | PGY-3, PGY-4 medical residents In Anesthesia, Neurology, Family Medicine, and Rehabilitation Medicine. | Lecturer and Member of the Program Steering Committee | 70 | 12 hrs / yr | March, 2002 |
| The Essentials of Pain Management: Principles and Practice: A Two Day Course; Sponsored by the American Pain Society, Chicago, IL | PGY-3, PGY-4 medical residents In Anesthesia, Neurology, Family Medicine, and Rehabilitation Medicine. | Lecturer and Member of the Program Steering Committee | 60 | 12 hrs / yr | March 19-20, 2003 |

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|--|---|--|----|-------------|--------------------|
| The Essentials of Pain Management: Principles and Practice: A Two Day Course; Sponsored by the Joint Scientific Meeting of the American Pain Society and Canadian Pain Society. Vancouver, Canada. | PGY-3, PGY-4 medical residents In Anesthesia, Neurology, Family Medicine, and Rehabilitation Medicine. | Lecturer, and Member of the Program Steering Committee | 75 | 12 hrs / yr | May 5-6, 2004 |
| The Essentials of Pain Management: Principles and Practice: A Two Day Course; Sponsored by the American Pain Society, Boston, MA | PGY-3, PGY-4, medical residents In Anesthesia, Neurology, Family Medicine, and Rehabilitation Medicine. | Lecturer, and Member of the Program Steering Committee | 96 | 12 hrs / yr | March 30-31, 2005. |
| The Essentials of Pain Management: Principles and Practice: A Two Day Course; Sponsored by the American Pain Society, S.Antonio, TX | Medical residents, PGY-3, PGY-4, and pain fellows in Anesthesia, Neurology, Family Medicine, and Rehabilitation Medicine. | Lecturer, Program Director, and Member of the Program Steering Committee | 98 | 12 hrs / yr | May 2-3, 2006 |
| The Essentials of Pain Management: Principles and Practice: A Two Day Course; Sponsored by the American Pain Society, Washington, DC | PGY-3, PGY-4, and pain fellows in Anesthesia, Neurology, Family Medicine, and Rehabilitation Medicine. | Lecturer, Program Director, and Member of the Program Steering Committee | 95 | 12hrs / yr | May 1 - 2, 2007 |

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PUBLICATIONS

ORIGINAL PEER REVIEWED ARTICLES

1. **Pappagallo M**, Gaspardone A, Tomai F, Iamele M, Crea F, and Gioffre' PA. Analgesic Effect of Bamiphylline on Pain Induced by Intradermal Injection of Adenosine. Pain 53:199-204, 1993.
2. **Pappagallo M**, Raja SN, Haythornthwaite JA, Clark M, and Campbell JN. Oral Opioid Therapy for the Management of Post Herpetic Neuralgia: a Prospective Survey. Analg 1:51-55, 1994.
3. **Pappagallo M** and Campbell JN. Chronic Opioid Therapy as Alternative Treatment for Post-Herpetic Neuralgia. Ann Neuro 35:S54-56, 1994
4. Gaspardone A, Crea F, Tomai F, Iamele M, **Pappagallo M**, Versaci F, Crossman DC, Chiarello L, Gioffre' PA. Substance P Potentiates the Allogenic Effects of the Intra-Arterial

Infusion of Adenosine. J Am Col Card 24:477-482, 1994.

5. Davis KD, Meyer RA, Turnquist JL, Filloon TG, **Pappagallo M**, and Campbell JN. Cutaneous Pretreatment with the Capsaicin Analog NE-21610 Prevents the Pain to a Burn and the Subsequent Hyperalgesia. Pain 62:373-378, 1995.
6. Davis KD, Meyer RA, Turnquist JL, Filloon TG, **Pappagallo M**, and Campbell JN. Cutaneous Injection of the Capsaicin Analog, NE-21610, Produces Analgesia to Heat but not to Mechanical Stimuli in Man. Pain 61:17-26, 1995.
7. **Pappagallo M** and Heinberg LJ. Ethical Issues in the Management of Chronic Non-Malignant Pain. Sem Neuro 17:3, pp 203-211, 1997.
8. Lavin RA, **Pappagallo M**, and Kuhlemeier KV. Cervical Pain: a Comparison of Three Pillows. Arch Phys Med Rehab 78 (2): 193-198, 1997.
9. Robbins WR, Staats PS, Levine J, Fields HL, Allen RW, Campbell JN, and **Pappagallo M**. Treatment of Intractable Pain with Topical High Large-Dose Capsaicin: Preliminary Report. Anesth Analg 86(3): 579-583, 1998.
10. Haythornthwaite JA, Menefee LA, Quatrano-Piacentini AL, and **Pappagallo M**. Outcome of Chronic Opioid Therapy for Non-Cancer Pain. J Pain Symp Mgmt 15:185-194, 1998.
11. **Pappagallo M**. The Concept of Pseudotolerance. J Pharm Care Pain Symp Cont 6(2): 95-98, 1998.
12. **Pappagallo M**. An Apparent Interventional Paradox: The Stimulation of the Motor Cortex, a New and Promising Treatment for Intractable Neuropathic Pain. Neuro Net Vol 3, No 6, pp305-8. Dec 1999.

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ORIGINAL PEER REVIEWED ARTICLES (cont'd)

13. Fuchs PN, **Pappagallo M**, and Meyer RA. Topical EMLA Pre-Treatment Fails to Decrease the Pain Induced by 1% Topical Capsaicin. Pain Apr. 80 (3): 637-42, 1999.
14. Clark MR, Heinberg LJ, Haythornthwaite JA, Quatrano-Piacentini AL, **Pappagallo M**, Raja SN. Psychiatric symptoms and distress differ between patients with postherpetic neuralgia and peripheral vestibular disease. J Psychosom Res 48:51-57, 2000.
15. **Pappagallo M**, Oaklander AL, Quatrano-Piacentini AL, Clark MR, and Raja SN. Heterogeneous patterns of sensory dysfunction in postherpetic neuralgia suggest multiple pathophysiological mechanisms. Anesth Vol 92, No 3, Mar 2000.
16. **Pappagallo M**. Dickerson ED, Hulka S. Palliative Care and Hospice Opioid Dosing

Guideline. Am J Hosp Palliat Care Vol.17, No.6, Nov/Dec, 2000.

17. Dickerson ED, Davis M, **Pappagallo M**, Benedetti C., Grauer PA., Lycan J. Mirtazepine: Heir Apparent to Amitriptyline. Am J Hosp Palliat Care Vol, 18.No. 1 Jan/Feb, 2001.
18. Davis MP, Dickerson ED, **Pappagallo M**, Varga J, Shuster, Jr. J, Benedetti C. Palliative Care: Long-Term Solution for Long-Term Care Part 1. Home Care Provid 6(3): 91-7. Jun 2001.
19. Davis MP, Dickerson ED, **Pappagallo M**, Varga J, Shuster J Jr, Benedetti C. Palliative care: A long-term solution for long-term care Part 3: Analgesic therapy (CE). Home Care Provid; 6(5): 164-70. Oct 2001.
20. **Pappagallo M**, Snow B. Pain Medicine and Psychophysics. J Pain Symp Mgmt Vol. 20. No, 6. Dec. 2000.
21. **Pappagallo M**, Rosenberg A, Epidemiology, Pathophysiology, and Management of Complex Regional Pain Syndrome. Pain Pract Vol 1, No 1; pp 11-20; 2001
22. Cox J, **Pappagallo M**. Contemporary and Emergent Pharmacological Therapies for Chronic Disabling pain Syndromes: Focus on Non-Opioid Analgesia. Expert Rev Neurotherap. 1(1), 81; 2001
23. Cox JM, **Pappagallo M**. Modafanil: A Gift to Portmanteau. Am J Hosp Palliat Care Nov-Dec; 18(6): 408-10; 2001
24. **Pappagallo M**. Incidence, Prevalence, and Management of Opioid Bowel Dysfunction. Am J Surg 182; 11S-18S; Nov 2001.
25. Haldey EJ, **Pappagallo M**. Cardiovascular Events and COX-2 Inhibitors. JAMA 286(22): 2808-2813. Dec 12, 2001

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ORIGINAL PEER REVIEWED ARTICLES (cont'd)

26. **Pappagallo M**, Dickerson ED, Twycross R. Low doses of opioid antagonists enhance morphine analgesia and reduce adverse effects. Prog Palliat Care Vol 9, 5:194-5. 2001
27. J Cox, **Pappagallo M**, Pharmacological approach to neuropathic pain: balancing efficacy, safety, and tolerability. Pain Mgmt Today. Vol. 2, No. 1, pp1-10. 2002
28. Fine PG, **Pappagallo M**, Price DD. Clinical advances in pain management: enhanced analgesia through NMDA receptor modulation. Am J Pain Mgmt Vol 12, No 4, pp1-8S. Oct 2002.
29. Raja SN, Haythornthwaite JA, **Pappagallo M**, Clark MR, Travison, TG, Sabeen S, Royal RM, Max MB, Opioids versus antidepressants in postherpetic neuralgia: A randomized

placebo-controlled trial. *Neuro* 59:1015-1021, 2001

30. Mastronardi L, **Pappagallo M**, Puzzilli F, Tatta C, Efficacy of the morphine-ADCON-L compound in the management of postoperative pain after lumbar microdiscectomy. *Neurosurg* 50(3): 518-24; Mar 2002.
31. Haythornthwaite JA, Clark M, **Pappagallo M**, Raja SN, Pain Coping Strategies Play a Role in the Persistence of Pain in Post-Herpetic Neuralgia. *Pain* 106(3): 453-60. Dec 2003.
32. **Pappagallo M**, Newer antiepileptic drugs: possible uses in the treatment of neuropathic pain and migraine. *Clin Ther* 25(10): 2506-38. Oct 2003.
33. **Pappagallo M**, Haldey EJ: Pharmacological Management of Postherpetic Neuralgia. *CNS Drugs* 17(11): 771-780. 2003.
34. **Pappagallo M**, Breuer B, Schneider A, Sperber K, Treatment of Chronic Mechanical Spinal Pain with Intravenous Pamidronate. *J Pain Symp Mgmt* Vol. 26:678-683. July, 2003
35. Lussier D, **Pappagallo M**, 10 most commonly asked questions about the use of opioids for chronic pain. *Neurol.* Vol 10, Number 4, pp 1-4, July 2004
36. **Pappagallo M**, American Academy of Neurology Practice Parameter: New Drugs, and Some Old Ones, Effective for Postherpetic Neuralgia. *J Watch Neuro* November 29, 2004
37. Bennett D, Burton AW, Fishman S, Fortner B, McCarberg B, Miaskowski C, Nash D, **Pappagallo M**, Payne R, Viscusi E, Wong W. Consensus Recommendations for the Assessment and management of Breakthrough Pain. Part I. *Pharm Therap* Vol. 30, No.5, May 2005.
38. Bennett D, Burton AW, Fishman S, Fortner B, McCarberg B, Miaskowski C, Nash D, **Pappagallo M**, Payne R, Viscusi E, Wong W. Consensus Recommendations for the assessment and management of breakthrough pain. Part II. *Pharm Therap* Vol. 30, No. 6, June 2005.

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ORIGINAL PEER REVIEWED ARTICLES (cont'd)

39. Mastronardi L, **Pappagallo M**, Tatta C: The Oxiplex/SPGel-morphine compound after lumbar microdiscectomy in the management of postoperative pain. Report of 20 cases. *Surg Neurol* Volume 64, Issue 1, Pages 75-78, Jul 2005
40. Coluzzi F, **Pappagallo M**. Opioid therapy for chronic noncancer pain: practice guidelines for initiation and maintenance of therapy. *Minerva Anestesiol* 71(7-8): 425-33. Jul-Aug 2005
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43. Breuer B, **Pappagallo M**, Tai JY, Portenoy R. U.S. Board-Certified Pain Physician Practices: Uniformity and Census Data of Their Locations. *J Pain*. Dec 12; 2006
44. Knotkova H, **Pappagallo M**. Adjuvant analgesics. *Med Clin North Am*. 91(1): 113-24. Jan 2007
45. Di Stani F, Bruti G, Pappagallo M, Calabresi M, Cerbo R; Cluster-migraine responding to anterior neck finger pressure and to topiramate. *The Journal of Headache and Pain*. In Press. 2007
46. Breuer B, **Pappagallo M**, Ongseng F, Goldfarb R. What is the Relationship of Low Back Pain to Signs of Abnormal Skeletal Metabolism Detected by Bone Scans? *Pain Med*. In Press. 2007
47. Knotkova H, **Pappagallo M**. Imaging Intracranial Plasma Extravasation in a Migraine Patient: a Case Report. *Pain Med*. In Press. 2007.
48. **Pappagallo M**. Bisphosphonate Therapy for Non-Cancer Pain, *Adv Pain Manage* 2007; 1(1): 19-23. http://media.ukyce.com/documents/MEN07151_1.pdf

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1. **Pappagallo M**. Current Pain and Headache Reports, 5:5-8 (February 2001)
2. **Pappagallo M**. Current Pain and Headache Reports, 5:99-101 (April 2001)
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5. **Pappagallo M**. Current Pain and Headache Reports, 5:399-401 (October 2001)
6. **Pappagallo M**. Current Pain and Headache Reports, 5:485-487 (December 2001)
7. **Pappagallo M**. Current Pain and Headache Reports, 6:7-9 (February 2002)

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8. **Pappagallo M**. Current Pain and Headache Reports, 6:87-89 (April 2002)
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13. **Pappagallo M.** Current Pain and Headache Reports, 7:6-8 (February 2003)

REVIEW ARTICLES

1. **Pappagallo M.** Aggressive Pharmacologic Treatment of Pain. In: Rheumatic Disease Clinics of North America. W.B. Saunders Co. Rheum Dis Clin North Am. Feb. 25 (1): 193-213, 1999.
2. Davis MP, Dickerson ED, **Pappagallo M**, Varga J, Shuster J Jr, Benedetti C. In: Palliative care: Long-term solution for long-term care; Part 2: Types of pain: A review (CE). Home Care Provid, Aug; 6(4): 126-33. 2001
3. **Pappagallo M.** Knotkova H, De Nardis L. The Multifaceted CRPS/RSD: Emerging Mechanisms and Therapy Critical Reviews™ in Physical and Rehabilitation Medicine Begell House Inc, Publisher. Vol 18, pp205-256. 2006

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3. **Pappagallo M.** Commentary on: Migraine Associated with Head Trauma, by Russell MB and Olsen J. The Pain Medicine Journal Club Journal, Vol 3, No 2, pp 66-68, 1997.
4. **Pappagallo M.** Water Pillow Softens Pain in the Neck. Modern Medicine, 65:5, pp 26, 1997.
5. **Pappagallo M.** Commentary on: Intravenous Guanethidine in Patients with Reflex Sympathetic Dystrophy by Kaplan R, et al. The Pain Medicine Journal Club Journal, Vol 3, No 6, 278-280, 1997.
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7. **Pappagallo M.** Commentary on: Complex Regional Pain Syndrome Type I (RSD): Pathology of Skeletal Muscle and Peripheral Nerve by van der Laan, L. et al. The Pain Medicine Journal Club Journal, Vol 4, No. 5, 184-185, 1998.
8. Campbell JN, **Pappagallo M**, Robbins W, and Staats P. Capsaicin revisited as a treatment for neuropathic pain. In: Novel Targets in the Treatment of Pain. IBC Publishers, Southborough, MA. 1999.

9. **Pappagallo M.** The Pain in Migraine is Not Mainly in the Brain. In: Johns Hopkins Physician Update. Vol 11:3, pg. 2, June 1999.
10. **Pappagallo M.** Inside Answers on Migraine. In The Johns Hopkins Health Insider. Vol 2:10, pg. 8, October 1999
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13. Benedetti C, Davis MP, Dickerson ED, **Pappagallo M**, Varga J, Pain: An overview. Journal of Terminal Oncology. Vol 2, No 2 Pp 67-74 Spring 2003
14. Mastronardi L, Tatta C, **Pappagallo M**, Ferrante L; Chapter1: Early Complication: post-operative lumbar and radicular pain. Efficacy of the epidural morphine carrier compound in the management of post-operative pain after lumbar microdiscectomy. In: Microdiscectomy for lumbar disc herniation: ideas for minimizing the most common early and late post-operative complications; Eds: Mastronardi M, Sameshima T, Ferrante L.) AF-neurovideo, Inc. Printed in Japan by iWord. pp 8-30. 2005.
15. **Pappagallo M.** Tolleranza, addiction, effetti collaterali: le domande piu'frequenti sull'uso degli oppioidi contro il dolore. Milan, Italy: Il Sole 24 Ore Sanita', pp 21-23. Nov 2006

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2. **Pappagallo M** and Campbell JN. The Pharmacologic Management of Chronic Back Pain. In The Adult Spine: Principle and Practice, Raven Press, 2nd edition. Frymoyer JW, Editor-in-chief. pp 275-286, 1997.
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4. Williams VB, **Pappagallo M.** Entrapment Neuropathies. In Essentials of Pain Medicine. Raja SN, Benson HT (Eds). Churchill-Livingstone, New York, 1998.

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BOOKS AND CHAPTERS IN BOOKS (cont'd)

5. Williams V, **Pappagallo M.** Central Pain. In: Essentials of Pain Medicine. Raja SN, Benson HT (Eds). Churchill-Livingstone, New York, 1998.
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9. **Pappagallo M**, (Ed), The Neurological Basis of Pain, McGraw-Hill Professional, New York. Hardback, 840 pages, 2005
10. **Pappagallo M**, Peripheral Neuropathic Pain. In: The Neurological basis of Pain; Chapter 23 (Pappagallo M., Ed). McGraw-Hill Professional, New York. 2005
11. Knotkova H, **Pappagallo M**, Pharmacology of Pain Transmission and Modulation. In The Neurological Basis of Pain; Chapter 3 (Pappagallo M, Ed). McGraw-Hill Professional, New York. 2005
12. Chun-Su Yuan, **Pappagallo M**. Introduction. In: Handbook of Opioid Bowel Syndrome (Ed. by Chun-Su Yuan). Binghamton, NY, Haworth Medical Press / Haworth Reference Press, 2005.
13. Ysmael Yap, **Pappagallo M**. The Epidemiology of Opioid Bowel Dysfunction. Chapter 4. In: Handbook of Opioid Bowel Syndrome (Ed. by Chun-Su Yuan). Binghamton, NY, Haworth Medical Press / Haworth Reference Press, 2005.
14. Stern M, Sperber K, **Pappagallo M**. Tramadol. Chapter 14, Section IV. In: Pain Medicine & Management: Just the facts (Eds: Wallace MS, Staats PS). McGraw-Hill. New York. pp 63-67. 2005
15. Twycross RG, Davis MP, Dickerson D, Shuster J, **Pappagallo M**. Palliative Medicine Textbook (Eds Twycross RG, et al) <http://www.pmp.com>, Chinese language; pp 794; 2005
16. **Pappagallo Marco**, Pappagallo Mario, Contro il Dolore. I nuovi strumenti della medicina per non soffrire: una battaglia civile. Milano. (Ed: Frassinelli) pp 213; 2005.
17. **Pappagallo M.**, Shaiova L, Perlov E, Knotkova H. Difficult Pain Syndromes: Bone Pain, Visceral Pain, Neuropathic Pain. 3rd Edition of Principles and Practice of Palliative Care and Supportive Oncology (Eds: Berger AM, Shuster JL, Von Roenn JH.). Philadelphia: Lippincott Williams & Wilkins, 2006.

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18. Chang C, **Pappagallo M**. Adjuvants for pain. In: Pain and Chemical Dependency, (Eds: Smith H, Passik S). Oxford University Press. In Press, 2007.
19. Skinner D, Epstein J, **Pappagallo M.**, Tramadol. In: Current Therapy in Pain (Ed.: Smith

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20. Knotkova H., **Pappagallo M.** Migraine Disorder: from animal models to clinical research. (Ed: James I. Alberman). In: Focus on Migraine Disorder Research. New York: Nova Science Publisher. In Press, 2007
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21. Lacy T, Serban S, Rao S, **Pappagallo M:** Pharmacotherapy: Adjuvant Analgesics. In: Benzon, Rathmell, Wu, Turk (Eds): Raj's Practical Management of Pain, 4th edition. Elsevier-Mosby. In Press, 2007.

INVITED LECTURES/PRESENTATIONS

1. Rheumatology Grand Round, "Sympathetically Maintained vs. Sympathetically Independent Pain Syndromes," Cabrini Medical Center, New York Medical College, NY, 1991.
2. Family Medicine Grand Round, "Treatment of Painful Neuropathies," Long Island Medical College, Brooklyn, NY, 1991.
3. Maryland Academy of Family Physicians, "Chronic Pain in Cancer," Easton, MD, 1993. .
4. Rehabilitation Medicine Grand Round, "Chronic Pain and Analgesia," Johns Hopkins School of Medicine, Good Samaritan Hospital, Baltimore, MD, 1994.
5. Neurology Grand Round, "The Pharmacological Management of Postherpetic Neuralgia," Emory University School of Medicine, Atlanta, GA, 1994.
6. Neurology Grand Round, "Survey on the Clinical Use of Opioids," Johns Hopkins School of Medicine, Baltimore, MD, 1995.
7. The Johns Hopkins First Annual Multidisciplinary Pain Medicine Update, "Opioids in the Management of Nonmalignant Pain: a Practical Reappraisal," Baltimore, MD, 1995.
8. Neurology Grand Round, "Opioids for Chronic Pain," North Shore University Hospital-Cornell University Medical College. Manhasset, NY, 1995.
9. American Pain Society, 14th Annual Scientific Meeting, "Zoster and Postherpetic Neuralgia: Pain Mechanisms and Current Management," Professional Development Course, Los Angeles, CA, 1995.
10. Academy of Family Physicians Conference, "Cancer Pain Management," Columbia, MD, 1995.

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INVITED LECTURES/PRESENTATIONS (cont'd.)

11. CME activity and course, supported by unrestricted educational grant from Parke-Davis. "Use of Antiepileptic Drugs in the treatment of Chronic Pain Syndromes," Houston, TX, faculty contributor, 1996.
12. Clinical Neurosciences Research Seminar, "Opioid Therapy for Chronic Non-Malignant

Pain," Johns Hopkins School of Medicine. Baltimore, MD, 1996.

13. Orthopedic Surgery Grand Round, "Controversies Surrounding the Use of Opioids for Non-Malignant Pain," Johns Hopkins School of Medicine. Baltimore, MD, 1996.
14. The Johns Hopkins Second Annual Multidisciplinary Pain Medicine Update, "Pharmacological Management of the Failed Back Syndrome," Baltimore, MD, 1996.
15. Pain Management Refined, Pain Management Session Type: the Roundtable Meeting, New Approaches. Lutherville, MD, 1997.
16. Grand Round, Mercy Medical Center, Pain Management Refined: New Approaches, Baltimore, MD, 1997.
17. New Horizons in Rheumatology Symposium, New Analgesics in Chronic Pain Management, Arthritis Foundation and the Florida Society of Rheumatology, Naples, FL, 1997.
18. Neurosurgery Grand Round, Chronic Pain Management, Johns Hopkins Hospital, Baltimore, MD, 1997.
19. American Pain Society, 16th Annual Scientific Meeting, Critical Issues of Pharmacology, Biology, and Behavior Psychology in Chronic Opioid Therapy. New Orleans, LA, 1997.
20. CME course supported by unrestricted educational grant from Parke-Davis. Pharmacologic Treatment of Chronic Non-Cancer Pain, Neuroscience Conference, Medical Center of Delaware, Newark, DE, 1997.
21. CME course supported by The Purdue Frederick Company. Opioids for Chronic Use, Rheumatology Grand Rounds, Johns Hopkins Hospital, Baltimore, MD, 1997.
22. CME course. The Management of Chronic Pain, Sixth Annual Update on Obstetric Anesthesia and Third Annual Multidisciplinary Pain Medicine Update. Johns Hopkins University School of Medicine, Baltimore, 1997.
23. Ohio State University Comprehensive Cancer Center, The Role of Narcotics in the Treatment of Pain, Implications of the Ohio Legislature, Bill 187. Columbus, OH, 1998.
24. Pain Management Refined: New Approaches, Practical Management of Chronic Nonmalignant Pain: Focus on Low Back Pain and Degenerative Joint Disease. San Francisco, CA, 1998.

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INVITED LECTURES/PRESENTATIONS (cont'd.)

25. Medical Grand Rounds: Prescription of Narcotics for Non-Malignant Pain. Harbor Hospital, Baltimore, MD, 1998.

26. Pain Management Refined: New Approaches Program, Opioid Therapy: Pharmacologic Management of Disabling Back Pain, Fawcett Center, Columbus, OH, 1998.
27. Roxanne Educational Seminar, Neuropathic Pain and Current Treatment Protocols, Mt. Carmel Medical Center, OH, 1998.
28. Ohio Hospice and Palliative Care Monthly Meeting, Cost Effective Opioid Therapy for Pharmacy, Columbus, OH, 1998.
29. Pain Management Refined: New Approaches Program, Chronic Pain in the Primary Care Setting, South Bend, IN, 1998.
30. Pain Management Refined: Opiates: the Myth of Addiction, Doctors Hospital, Columbus, OH, 1998.
31. American Pain Society, 17th Annual Meeting, Capsaicin: Understanding the Physiological and Pharmacologic Effects and Uncovering Future Clinical Applications, Symposium, San Diego, CA, Lecturer and Moderator 1998.
32. Johns Hopkins Medicine, A Woman's Journey, Treating Pain, Johns Hopkins Hospital, Baltimore, MD, 1998.
33. CME activity and courses sponsored by an unrestricted educational grant from Athena Neurosciences, Inc. Contemporary Approaches to Managing Pain, Dallas, TX, faculty contributor and lecturer, 1998
34. CME course. Pain in Cancer and Non-Malignant Pain, Charleston, SC, 1999.
35. Maryland Neurological Society, Annual Symposium, Antiepileptic Drugs in the Treatment of Pain, Baltimore, MD, 1999.
36. Global Expert Training (GET) with Roxanne, Controlling Neuropathic Pain in the Hospice Patient, Madison, WI; Columbus, OH; Detroit, MI; Chicago, IL, March 21-26, 1999
37. Ortho McNeil Epilepsy Consultant Program, The Use of AEDs for Pain Control, Coral Gables, FL, February 20, March 21-26, 1999
38. Ortho McNeil Epilepsy Consultant Program, The Use of AEDs for Pain Control, Las Vegas, NV, March 13, 1999.

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INVITED LECTURES/PRESENTATIONS (cont'd.)

39. The John J. Bonica International Symposium on Pain and Suffering, Opiophobia in medicine: revisiting the concepts of physical dependency, tolerance and addiction, Siena,

Italy, 1999.

40. 2nd International Conference on Mechanisms and Treatment of Neuropathic Pain, Anticonvulsants, Washington DC, 1999.
41. AAN 51st Annual Meeting, Imaging Inflammation in Patients with Migraine Headaches S39.004, Toronto, Canada, 1999.
42. Global Expert Training (GET) with Roxanne, Controlling Neuropathic Pain in the Hospice Patient; Wichita, KS, Tulsa OK, Kansas City, KS, Denver, CO; Trainer and Lecturer, July 30-August 6, 1999.
43. John J. Bonica Memorial Symposium on Cancer Pain and Palliative Care, The Use of Adjuvant Medications in the Treatment of Pain, Mondello (Palermo), Italy, August 17-20, 1999.
44. Rheumatology on the Beach, Aggressive Pharmacological Treatment of Pain Destin, FL, September 29, 1999.
45. Educational Seminar with Roxanne Laboratories, Development & Implementation of a Palliative Care & Pain Management Program, Indianapolis, IN, September 30, 1999.
46. 18th Annual Scientific Meeting of the American Pain Society, Breakfast Roundtable Discussion, Problem-Based, Case-Oriented, Active Learning Discussions on Chronic Pain Management, Fort Lauderdale, FL, October 22, 1999.
47. Pain Management Strategies for the Primary Care Specialist, Headaches, New York, NY, November 19, 1999. CME course sponsored by the Southern Medical Association Conference on Pain Management.
48. CME course sponsored by the Philadelphia VA Medical Center, Philadelphia, PA, 2000.
49. CME course sponsored by Beth Israel, Waldorf Astoria, NY, 2000.
50. "The Management of Chronic Pain," Occupational and Industrial Orthopedic Center New York, NY, Jan 19, 2000.
51. Grand Rounds Department of Oncology, "Neuropathic Pain" Mayo Clinic Rochester, MN, February 3, 2000.
52. Grand Rounds Dept of Rehabilitation Medicine, "Neuropathic Pain," Rusk Institute), New York, NY, Feb 9, 2000.

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INVITED LECTURES/PRESENTATIONS (cont'd.)

53. Grand Rounds Dept of Neurology, "Headaches," NYU Medical Center, New York, NY, Feb. 11, 2000.

54. Grand Rounds Department of Rehabilitation Medicine "Spasticity and Painful Spasms," Kingsbrook Jewish Medical Center, Brooklyn, NY, February 24, 2000.
55. Grand Rounds Department of Neurology, "Headaches," Stanford University, California, April 5, 2000.
56. "Pain Management Overview & Workshop," Michigan Hospice & Palliative Care Organization, Lansing, MI, May 1, 2000..
57. Morphine in Cancer Pain, The 2nd Seminar on Palliative Medicine, Chengdu, Sichuan, China. Sponsored by AIMS and WHO, May 7-14, 2000.
58. Department of Rehabilitation Medicine at Albert Einstein Montefiore, Bronx, NY, 2000.
59. Grand Rounds, Dept of Neurology: Diagnosis of Neuropathic Pain, SUNY at Stony Brook, 2000.
60. Grand Rounds Dept of Neurology, "Headaches", St. Vincent's Hospital, NY, 2000.
61. Grandell Rehabilitation & Nursing Center, "Pain Management in the Elderly Population" Long Beach, Long Island, 2001.
62. Pain Summit, "Management of Chronic Non-Malignant Pain", Riverside Methodist Hospital, Columbus, Ohio. 2001.
63. Oxford International Centre for Palliative Care Therapeutics Seminar, Oxford University, "Enhancing Opioid analgesia with Opioid antagonists", Oxford, London. May 8-9, 2001.
64. Boehringer-Ingelheim Global Analgesic Seminar, June 10-13, Siena, Italy, Management of Chronic Disabling Pain. 2001.
65. Hospice of Naples, FL, Cancer Pain: Focus on Neuropathic Pain. Feb. 21, 2002, Naples, FL, 2001.
66. Grand Rounds, Dept. of Neurosciences, Neuropathic Pain, University of Rome, "La Sapienza", Rome, Italy, Visiting Professor and Lecturer, March 20-27, 2002.
67. Dean Lecture, A New Field of Medicine: Pain Management and Palliative Care, University of Rome, "La Sapienza," Rome, Italy; March 27, 2002, Visiting Professor and Lecturer, March 20-27, 2002.
68. AAN 54th Annual Meeting, Pain Management: Principles and Practice, Full-Day Course, Denver, CO, Non-Opioid Analgesics; April 15, 2002.

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INVITED LECTURES/PRESENTATIONS (cont'd.)

69. The Southern Pain Society Meeting "Complex Regional Pain Syndromes," King of Prussia,

PA; June 1, 2002.

70. Grand Rounds, Dept. of Neurology, Partaking in the Decade of Pain Control and Research, Mayo Clinic, Rochester, MN, July 2, 2002.
71. Grand Rounds, Pain Medicine and Palliative Care, Intravenous Pamidronate for Chronic Back Pain: Preliminary Experience. Memorial Sloan-Kettering Hospital, New York, NY, Dec 5, 2002.
72. Grand Rounds, Rheumatology, Neuropathic Pain, Hospital for Special Surgery, New York, Dec 12, 2002.
73. The Southern Clinical Neurological Society, 30th Annual Meeting, Neuropathic Pain: Mechanisms and Treatments, Ixtapa, Mexico; January 23, 2003.
74. Grand Rounds, Dept of Pain Medicine and Palliative Care, Chronic Back Pain, Beth Israel Hospital, New York, NY, January 28, 2003.
75. Work-shop. Pain management. American College of Physicians – American Society of Internal Medicine, NY Chapter Meeting, New York, NY, March 22, 2003.
76. Symposium. Contemporary Inpatient Pain Programs: Protocols and Economic Viability. American Pain Society Annual Meeting, Course Director, Chicago, March 19, 2003.
77. Symposium, What is RSD / Complex Regional Pain Syndrome? – American Academic of Neurology 55th Annual Meeting, Course Director and Presenter, Honolulu, Hawaii. April 2003.
78. Symposium. Pharmacotherapeutic Options for the Management of Opioid Side Effects. The National Medical Association (NMA) Annual Scientific Assembly and Convention, Philadelphia, Aug 6, 2003.
79. The Southern Clinical Neurological Society, 31st Annual Meeting, Non analgesic effects of the opioids. St. Thomas, US Virgin Islands, Jan 19, 2004.
80. Grand Rounds, Dept. of Neurology at Boston University, Neuropathic Pain. Boston, MA. Feb 10, 2004.
81. Symposium. "22nd Annual Neurology Symposium", Pain Pharmacotherapy. Southern Illinois University, School of Medicine. Springfield, IL March 19, 2004.
82. Dinner Seminar, Pharmacological Management of Chronic Pain. 55th American Academy of Neurology Annual Meeting, S.Francisco, CA. April 26th, 2004.
83. Pri-Med Updates. Treatment of Postherpetic Neuralgia. East Rutherford, NJ. May 14, 2004.

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INVITED LECTURES/PRESENTATIONS (cont'd.)

84. Tenth Annual Multidisciplinary Pain Medicine Update, Headaches, Johns Hopkins University School of Medicine, Baltimore, MD, August 6-8, 2004.
85. International Association of Industrial Accident (IAIABC) Convention, Pain Management: Helping Injured Workers or Creating Addicts? Panelist; Medata, Inc., New York, NY, August 10, 2004.
86. JJ Bonica Memorial. III Meeting ACD SIAARTI. Opioid Therapy for noncancer pain. Capo Calava', Messina, Italy, September 20-23, 2004. .
87. American Academy of Pain Medicine, 21st Annual Meeting. Updated Sessions; The Multifaceted Complex regional Pain Syndrome (405); CRPS: Definition, Epidemiology, Clinical Diagnosis, and Pharmacological Options. Lecturer and Course Director, Palm Spring, CA, February 23-27, 2005.
88. American Academy of Pain Medicine 21st Annual Meeting. Updated Sessions. Bone Pain: Prevalent, Misunderstood, and Often Undertreated (407); Course Director, Palm Springs CA, Feb 23-27, 2005.
89. National Football League – Program for Substances of Abuse Meeting. The management of chronic pain with opioid analgesics. Intercontinental Barclay Hotel, New York , NY May 7, 2005.
90. Visiting Professor Program, Grand Round Speaker “The Multifaceted CRPS/RSD”, Department of Anesthesiology, Mount Sinai School of Medicine, New York, NY; Oct 12, 2005.
91. First Albany Capital – Finding Investment Opportunities in the Chronic Pain Market; Novel Agents for Chronic Pain Management. Harvard Club, 35 W 44th st. NYC, NY March 16, 2006.
92. Grand Rounds, Department of Neurology “CRPS/RSD: overview” North Shore / LJH Medical Center, March 24, 2006.
93. Congresso Italiano Federdolore “L’uso degli oppioidi nel mondo” and “ Il modello del centro di terapia del dolore” Riccione, Italy; May 10 - 12, 2007

MEDIA RESOURCE EDUCATIONAL MATERIALS

- 2001 Education and Research in Pain and Palliative Care at Beth Israel Medical Center in www.stoppain.org Internet-based educational slide series; Pain syndromes: Neuropathic Pain and Back Pain, Author